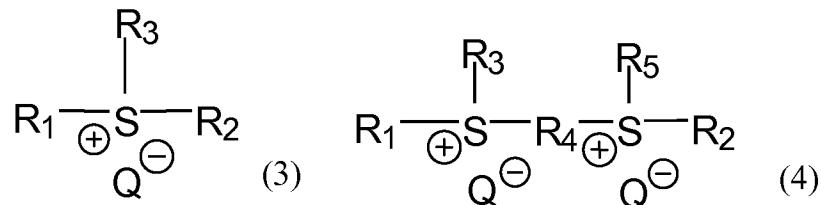
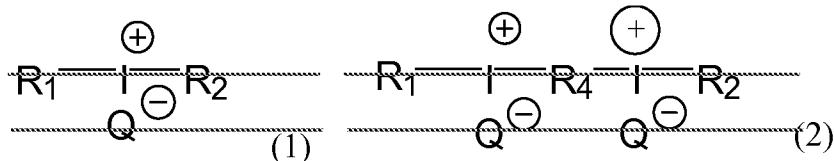


### Amendments to the Claims

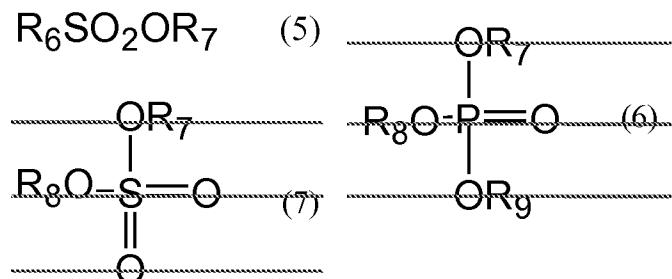
This is a complete listing of claims and supersedes all other listings:

1. (currently amended) A method for producing an onium salt derivative, characterized by comprising reacting an onium salt which has a halide Q as an anion moiety and which is represented by any one of formulas (3) or (4) (1) through (4):



wherein each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, and R<sub>5</sub> represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, an aromatic organic group, an aralkyl group, or a phenacyl group, each of these groups having  $\leq 25$  carbon atoms and being optionally substituted; one or both of the pairs of R<sub>1</sub> and R<sub>3</sub>, and R<sub>2</sub> and R<sub>5</sub> may together form a divalent organic group; R<sub>4</sub> represents a C $\leq 20$  divalent organic group; and Q represents a halide anion,

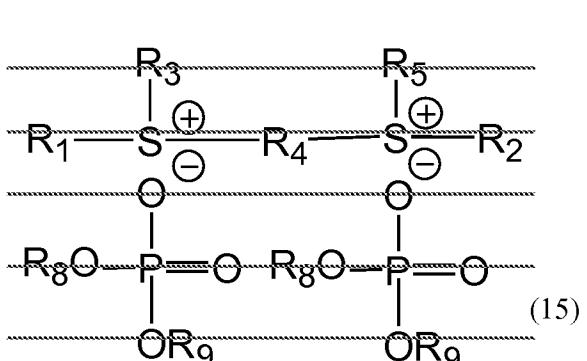
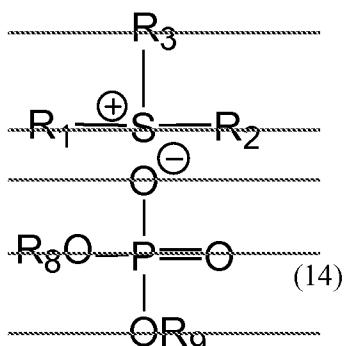
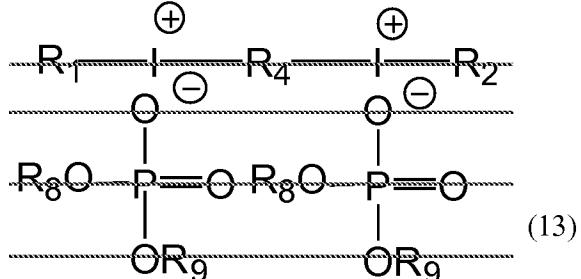
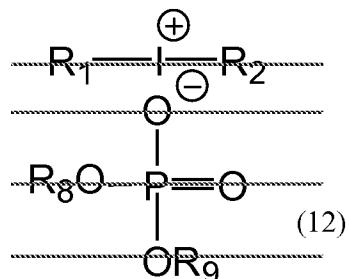
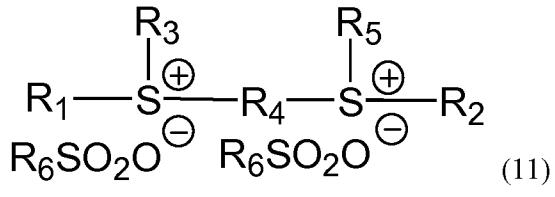
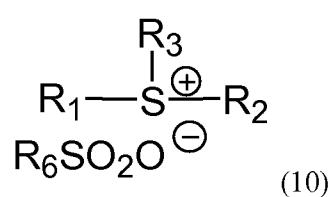
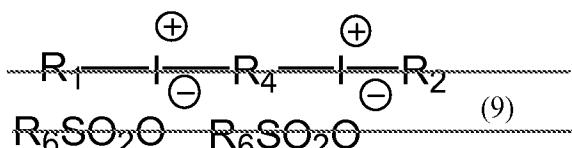
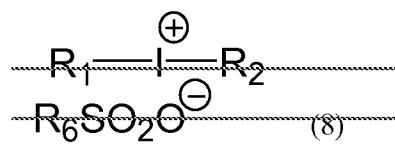
with an ester compound which has an alkyl group R<sub>7</sub> and which is represented by any one of formulas formula (5) through (7):

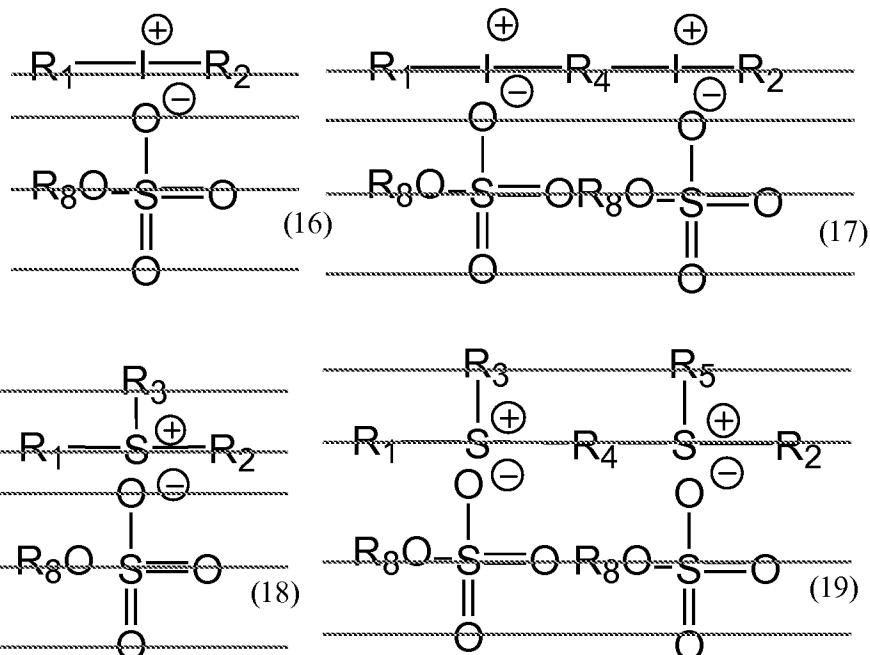


wherein R<sub>6</sub> represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, an aromatic organic group, or an aralkyl group, each of these groups having  $\leq 25$  carbon atoms and being

optionally substituted; R<sub>7</sub> represents an alkyl group, having  $\leq 5$  carbon atoms and being optionally substituted; and each of R<sub>8</sub> and R<sub>9</sub> represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, or an aralkyl group, each of these groups having  $\leq 10$  carbon atoms and being optionally substituted,

to thereby form R<sub>7</sub>Q through nucleophilic attack by the halide Q on the alkyl group R<sub>7</sub> of the ester compound ~~compound~~, and to also produce an onium salt derivative which is formed of an anion represented by ~~any one of~~ R<sub>6</sub>SO<sub>2</sub>O<sup>-</sup>, PO<sub>4</sub>R<sub>8</sub>R<sub>9</sub><sup>-</sup>, and R<sub>8</sub>SO<sub>4</sub><sup>-</sup> derived from the ester compound and an onium cation derived from the onium salt, an onium salt derivative represented by ~~one of~~ formulas (10) or (11) ~~(8) through (19)~~.





2. (canceled)

3. (original) A method for producing an onium salt derivative according to claim 1, wherein reaction is carried out while removing generated R<sub>7</sub>Q from the reaction system.

4. (previously amended) A method for producing an onium salt derivative according to claim 1 or 3, wherein the reaction is carried out in a solvent.

5. (canceled)

6. (canceled)

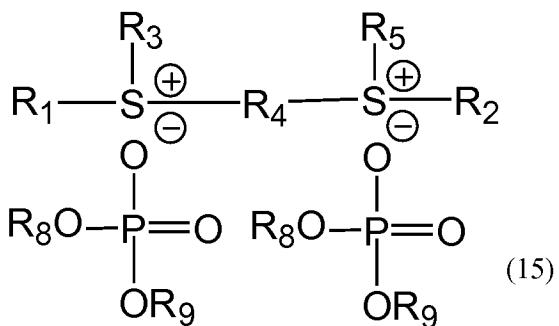
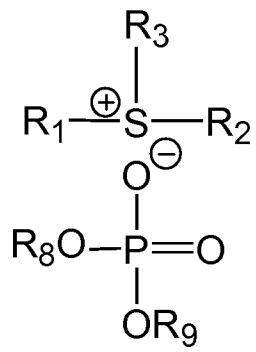
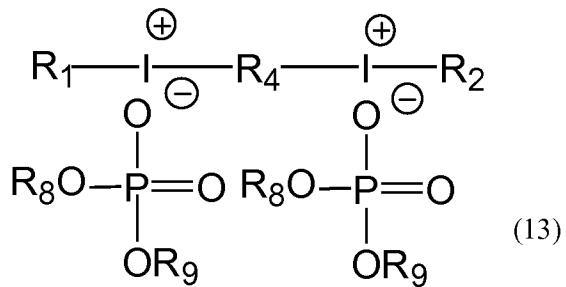
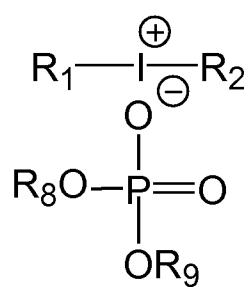
7. (canceled)

8. (canceled)

9. (canceled)

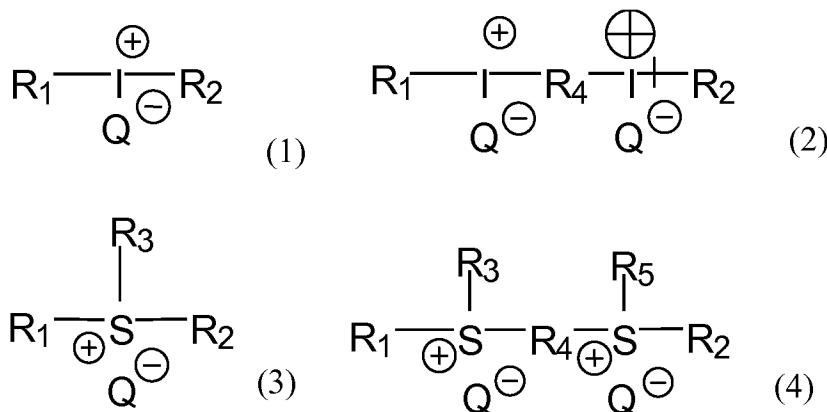
10. (canceled)

11. (Withdrawn) An onium compound which has a phosphate derivative as an anion moiety and which is represented by any one of formulas (12) through (15):



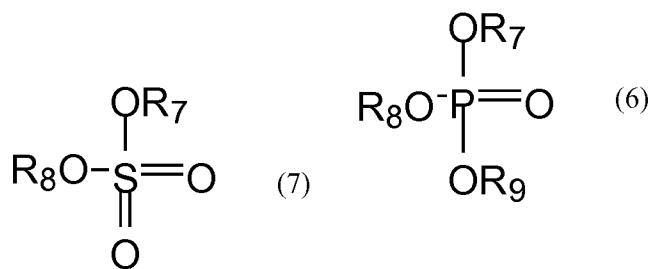
wherein each of  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_5$  represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, an aromatic organic group, an aralkyl group, or a phenacyl group, each of these groups having  $\leq 25$  carbon atoms and being optionally substituted; one or both of the pairs of  $R_1$  and  $R_3$ , and  $R_2$  and  $R_5$  may together form a divalent organic group;  $R_4$  represents a  $C \leq 20$  divalent organic group; and each of  $R_8$  and  $R_9$  represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, or an aralkyl group, each of these groups having  $\leq 10$  carbon atoms and being optionally substituted.

12. (withdrawn) A method for producing an onium salt derivative, characterized by comprising reacting an onium salt which has a halide  $Q$  as an anion moiety and which is represented by any one of the following formulas (1) through (4):



wherein each of  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_5$  represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, an aromatic organic group, an aralkyl group, or a phenacyl group, each of these groups having  $\leq 25$  carbon atoms and being optionally substituted; one or both of the pairs of  $R_1$  and  $R_3$ , and  $R_2$  and  $R_5$  may together form a divalent organic group;  $R_4$  represents a  $C\leq 20$  divalent organic group; and  $Q$  represents a halide anion,

with an ester compound which has an alkyl group  $R_7$  and which is represented by any one of formulas (6) or (7):



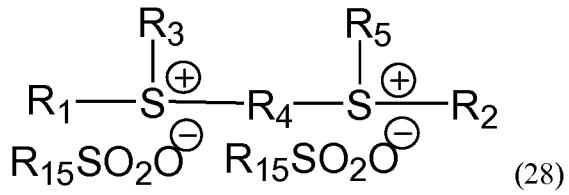
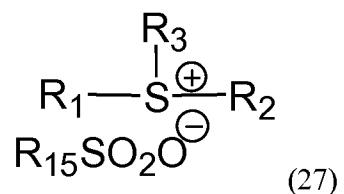
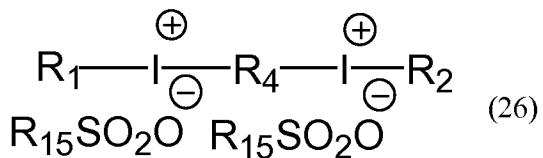
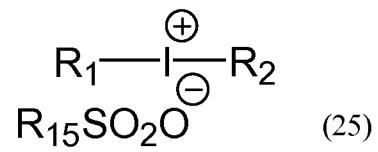
wherein R<sub>7</sub> represents an alkyl group, having  $\leq 5$  carbon atoms and being optionally substituted; and each of R<sub>8</sub>, and R<sub>9</sub> represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, or an aralkyl group, each of these groups having  $\leq 10$  carbon atoms and being optionally substituted;

to thereby form R<sub>7</sub>Q through nucleophilic attack by the halide Q on the alkyl group R<sub>7</sub> of the ester compound, and to also produce an onium salt derivative which is formed of an anion represented by PO<sub>4</sub>R<sub>8</sub>R<sub>9</sub><sup>-</sup> or R<sub>8</sub>SO<sub>4</sub><sup>-</sup> derived from the ester compound and an onium cation derived from the onium salt; and reacting the onium salt derivative with a sulfonic acid derivative represented by formula (24):



wherein  $R_{15}$  represents an alkyl group, a cycloalkyl group, a perfluoroalkyl group, an aromatic organic group, or an aralkyl group, each of these groups having  $\leq 25$  carbon atoms and being optionally substituted; and  $Y$  represents a hydrogen atom, an alkali metal, or ammonium,

to thereby cause salt exchange and yield an onium salt derivative represented by one of formulas (25) through (28).



13. (withdrawn) A method for producing an onium salt derivative according to claim 12, wherein each of  $R_7$ ,  $R_8$  and  $R_9$  is a methyl group or an ethyl group.